

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A fan apparatus configured to be installed in a chamber of a handler, the fan apparatus comprising:
  - a case;
  - a shaft configured to be connected to a central rotation shaft of a rotation motor, wherein the shaft is installed in the case;
  - a plurality of bearing housings installed in the case, wherein at least one of the bearing housings comprises:
    - a first housing portion having a plurality of first guide recesses;
    - a second housing portion configured to be contained in the first housing portion and slidable therein;
    - a bearing installed inside the second housing portion and configured to support the shaft; and
    - a plurality of labyrinths installed, respectively, at both sides of the bearing and configured to support the bearing.

2. (Previously Presented) The fan apparatus of claim 1, wherein the first housing portion further comprises a grease inlet configured to allow grease to be supplied to the bearing housing, and a plug configured to seal the grease inlet.
3. (Previously Presented) The fan apparatus of claim 1, wherein a the plurality of first guide recesses are formed on an inner surface of the first housing portion.
4. (Previously Presented) The fan apparatus of claim 3, wherein the second housing portion comprises a plurality of second guide recesses formed on an outer surface of the second housing portion, and wherein the plurality of second guide recesses are formed facing the plurality of first guide recesses.
5. (Previously Presented) The fan apparatus of claim 4, further comprising a plurality of keys configured to be slidably inserted and mounted into the plurality of first guide recesses and the plurality of second guide recesses.
6. (Previously Presented) The fan apparatus of claim 5, wherein the number of keys installed into the second guide recess and inserted into the first guide recess is the same as the

number of second guide recesses and the number of first guide recesses formed at the second housing portion and the first housing portion, respectively.

7. (Previously Presented) The fan apparatus of claim 3, wherein the plurality of first guide recesses are formed opposite each other.

8. (Previously Presented) The fan apparatus of claim 3, wherein the plurality of first guide recesses are formed extending in a longitudinal direction on an inner surface of the first housing portion.

9. (Previously Presented) The fan apparatus of claim 4, wherein the plurality of second guide recesses are formed in a longitudinal direction on an outer surface of the of the second housing portion.

10. (Previously Presented) The fan apparatus of claim 1, further comprising a push cover configured to cover the second housing portion when the second housing portion is inserted into the first housing portion.

11. (Previously Presented) The fan apparatus of claim 1, wherein the second housing portion is further configured to slide in a longitudinal direction within the first housing portion in response to a force applied by the shaft.

12. (Currently Amended) A fan apparatus configured to be installed in a chamber of a handler, comprising:

a case;

a shaft installed in the case and configured to be connected to a central rotation shaft of a rotation motor, ~~the shaft installed in the case;~~

a plurality of bearing housings installed at ends of the case, wherein at least one of the bearing housings comprises:

a first housing portion [[,]] ;

a second housing portion configured to be slidably joined to the first housing portion [[,]] ; and

a bearing installed inside the second housing portion and configured to support the shaft.

13. (Previously Presented) The fan apparatus of claim 12, wherein the first housing portion further comprises at least one first guide recess.

14. (Previously Presented) The fan apparatus of claim 13, wherein the at least one first guide recess extends in a longitudinal direction along an inner surface of the first housing portion.

15. (Previously Presented) The fan apparatus of claim 13, wherein the second housing portion further comprises at least one second guide recess.

16. (Previously Presented) The fan apparatus of claim 15, wherein the at least one second guide recess extends in a longitudinal direction along an outer surface of the second housing portion.

17. (Previously Presented) The fan apparatus of claim 15, wherein the at least one first guide recess and the at least one second guide recess face each other when the second housing portion is joined to the first housing portion.

18. (Previously Presented) The fan apparatus of claim 15, wherein the number of first guide recesses is equal to the number of second guide recesses.

19. (Previously Presented) The fan apparatus of claim 15, further comprising at least one key configured to be inserted into the at least one second guide recess and the at least one first guide recess.
20. (Previously Presented) The fan apparatus of claim 19, wherein the number of keys is the same as the number of first guide recesses or the number of second guide recesses.
21. (Previously Presented) The fan apparatus of claim 12, further comprising at least one labyrinth installed in the second housing portion and configured to hold the bearing.
22. (Previously Presented) The fan apparatus of claim 12, further comprising a push cover configured to cover the second housing portion when the second housing portion is joined to the first housing portion.
23. (Previously Presented) The fan apparatus of claim 12, wherein the first housing portion further comprises a grease inlet configured to allow grease to be supplied to an inner portion of the first housing portion, and a plug configured to seal the grease inlet.

24. (Currently Amended) A dual structure bearing housing assembly, comprising:  
a first housing portion;  
a second housing portion configured to be slidably joined to the first housing portion and configured to receive a bearing; and  
at least one key configured to be fixed to one of the first or second housing portions, and to be slidably inserted into the other of the first and second housing portions so as to slidably couple the first housing portion and the second housing portion.

25. (Previously Presented) The bearing housing assembly of claim 24, wherein the first housing portion further comprises at least one first guide recess formed in a longitudinal direction along an inner surface of the first housing portion.

26. (Previously Presented) The bearing housing assembly of claim 25, wherein the second housing portion further comprises at least one second guide recess formed in a longitudinal direction along an outer surface of the second housing portion.

27. (Previously Presented) The bearing housing assembly of claim 26, wherein the number of first guide recesses and the number of second guide recesses is the same, and wherein each first guide recess faces a corresponding second guide recess.

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28. (Currently Amended) The bearing housing assembly of claim 26, wherein the at least one key is configured to be mounted in one of the first and second guide recesses, and slidably inserted into the other of the first and second guide recesses.

29. (Previously Presented) The housing of claim 24, wherein the second housing portion is further configured to slide in the longitudinal direction within the first housing portion in response to a longitudinal force applied to the second housing portion.